

Appendix 1.

Baseline characteristics of AMI patients, fiscal year 2008

Characteristic	Improved Sites (n = 652)	Non-Improved Sites (n = 676)
Crowding (average ED LOS in hours), mean (SD)	8.2 (3.2)	7.1 (2.9)
ED LOS (hours), median (IQR)	8.9 (4.4-17.3)	8.3 (4.2-15.8)
Time to MD in hours, median (IQR)	0.7 (0.3-1.6)	0.8 (0.3-1.5)
Age, mean (SD)	69.5 (14.3)	69.7 (14.8)
Female, n (%)	247 (37.9)	261 (38.6)
Acuity (CTAS), n (%)		
Resuscitation	63 (9.7)	43 (6.4)
Emergent	429 (65.8)	446 (66.0)
Urgent	142 (21.8)	171 (25.3)
Income quintile, n (%)		
Income quintile 1 (lowest)	163 (25.0)	139 (20.6)
Income quintile 2	164 (25.2)	142 (21.0)
Income quintile 3	121 (18.6)	142 (21.0)
Income quintile 4	91 (14.0)	128 (18.9)
Income quintile 5 (highest)	110 (16.9)	124 (18.3)
Missing	3 (0.5)	1 (0.1)
Rural residence, n (%)	34 (5.2)	41 (6.1)
Missing	2 (0.3)	1 (0.1)
Shift, n (%)		
Night (00:00 to 07:59)	142 (21.8)	143 (21.2)
Day (08:00 to 15:59)	292 (44.8)	306 (45.3)
Evening (16:00 to 23:59)	218 (33.4)	227 (33.6)
Weekend/holiday, n (%)	196 (30.1)	222 (32.8)
STEMI, n (%)	203 (31.1)	204 (30.2)
Cardiac catheterization at ED site, n (%)	305 (46.8)	260 (38.5)
12-lead in ambulance, n (%)	180 (27.6)	154 (22.8)
Chest pain, n (%)	408 (62.6)	395 (58.4)
Other symptoms, n (%)	392 (60.1)	483 (71.4)
Arrived by ambulance, n (%)	352 (54.0)	350 (51.8)

Baseline characteristics of asthma patients, fiscal year 2008

Characteristic	Improved Sites (n = 682)	Non-Improved Sites (n = 689)
Crowding (average ED LOS in hours), mean (SD)	7.9 (3.2)	6.5 (2.3)
ED LOS (hours), median (IQR)	3.6 (2.3-5.3)	3.0 (2.0-4.5)
Time to MD in hours, median (IQR)	1.2 (0.5-2.5)	1.0 (0.5-1.9)
Age, mean (SD)	23.7 (16.5)	23.7 (15.9)
Female, n (%)	353 (51.8)	371 (53.8)
Acuity (CTAS), n (%)		
Resuscitation	8 (1.2)	13 (1.9)
Emergent	224 (32.8)	221 (32.1)
Urgent	450 (66.0)	455 (66.0)
Income quintile, n (%)		
Income quintile 1 (lowest)	217 (31.8)	193 (28.0)
Income quintile 2	150 (22.0)	130 (18.9)
Income quintile 3	135 (19.8)	124 (18.0)
Income quintile 4	103 (15.1)	117 (17.0)
Income quintile 5 (highest)	75 (11.0)	123 (17.9)
Missing	2 (0.3)	2 (0.3)
Rural residence, n (%)	45 (6.6)	33 (4.8)
Missing	1 (0.1)	0 (0.0)
Shift, n (%)		
Night (00:00 to 07:59)	168 (24.6)	181 (26.3)
Day (08:00 to 15:59)	223 (32.7)	220 (31.9)
Evening (16:00 to 23:59)	291 (42.7)	288 (41.8)
Weekend/holiday, n (%)	241 (35.3)	254 (36.9)
Currently taking a beta agonist (oral or inhaled), n (%)	453 (66.4)	427 (62.0)
Currently taking a corticosteroid (oral or inhaled), n (%)	310 (45.5)	295 (42.8)
Beta agonist administered in ED, n (%)		
None	76 (11.1)	82 (11.9)
1 dose	204 (29.9)	226 (32.8)
2 doses	114 (16.7)	163 (23.7)
3 or more doses	249 (36.5)	165 (23.9)

Baseline characteristics of adult fracture patients, fiscal year 2008

Characteristic	Improved Sites (n = 504)	Non-Improved Sites (n = 507)
Crowding (average ED LOS in hours), mean (SD)	6.4 (3.1)	6.1 (5.2)
ED LOS (hours), median (IQR)	3.7 (2.4-5.9)	3.8 (2.5-5.7)
Time to MD in hours, median (IQR)	1.3 (0.7-2.5)	1.3 (0.7-2.3)
Age, mean (SD)	60.3 (18.8)	61.0 (20.3)
Female, n (%)	347 (68.8)	361 (71.2)
Acuity (CTAS), n (%)		
Emergent	57 (11.3)	65 (12.8)
Urgent	245 (48.6)	276 (54.4)
Less Urgent	192 (38.1)	156 (30.8)
Income quintile, n (%)		
Income quintile 1 (lowest)	122 (24.2)	109 (21.5)
Income quintile 2	107 (21.2)	96 (18.9)
Income quintile 3	88 (17.5)	101 (19.9)
Income quintile 4	99 (19.6)	84 (16.6)
Income quintile 5 (highest)	87 (17.3)	115 (22.7)
Missing	1 (0.2)	2 (0.4)
Rural residence, n (%)	43 (8.5)	31 (6.1)
Missing	1 (0.2)	0 (0.0)
Shift, n (%)		
Night (00:00 to 07:59)	47 (9.3)	60 (11.8)
Day (08:00 to 15:59)	255 (50.6)	265 (52.3)
Evening (16:00 to 23:59)	202 (40.1)	182 (35.9)
Weekend/holiday, n (%)	160 (31.7)	185 (36.5)
Reduction, n (%)	107 (21.2)	114 (22.5)

Baseline characteristics of pediatric fracture patients, fiscal year 2008

Characteristic	Improved Sites (n = 336)	Non-Improved Sites (n = 377)
Crowding (average ED LOS in hours), mean (SD)	6.0 (3.0)	5.1 (2.5)
ED LOS (hours), median (IQR)	2.7 (1.7-4.0)	2.6 (1.8-3.8)
Time to MD in hours, median (IQR)	1.2 (0.6-2.2)	1.1 (0.6-2.0)
Age, mean (SD)	9.5 (4.2)	9.0 (4.2)
Female, n (%)	133 (39.6)	151 (40.1)
Acuity (CTAS), n (%)		
Emergent	34 (10.1)	53 (14.1)
Urgent	149 (44.3)	148 (39.3)
Less Urgent	148 (44.0)	166 (44.0)
Income quintile, n (%)		
Income quintile 1 (lowest)	87 (25.9)	69 (18.3)
Income quintile 2	78 (23.2)	59 (15.6)
Income quintile 3	47 (14.0)	86 (22.8)
Income quintile 4	66 (19.6)	86 (22.8)
Income quintile 5 (highest)	56 (16.7)	76 (20.2)
Missing	2 (0.6)	1 (0.3)
Rural residence, n (%)	30 (8.9)	22 (5.8)
Missing	2 (0.6)	0 (0.0)
Shift, n (%)		
Night (00:00 to 07:59)	12 (3.6)	13 (3.4)
Day (08:00 to 15:59)	138 (41.1)	130 (34.5)
Evening (16:00 to 23:59)	186 (55.4)	234 (62.1)
Weekend/holiday, n (%)	108 (32.1)	125 (33.2)
Reduction, n (%)	40 (11.9)	48 (12.7)